





Training course 'Mechanized Tunnelling in Urban Areas'

Roma 13 - 14 April 2012

Programme

Friday 13th April 2012

| 08.00 - 8.30: | Participant registration |
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| 08.30 – 9.00: | Opening ceremony, In-Mo LEE (ITA President), Enrico ARINI (SIG President), |
| | Claude BÉRENGUIER (ITACET Foundation Executive Director), Augusto |
| | DESIDERI (Rome University "La Sapienza"), Daniele PEILA (ITA ExCo). |
| 09.00 – 10.30: | Mechanized tunnelling in soft soil. General aspects & history of the machine's development, <i>Rick LOVAT</i> (<i>L2 Advisors IncCanada, ITA ExCo</i>). |
| 10.30 – 12.00: | Face pressure design in mechanized tunnelling, George ANAGNOSTOU (ETH |
| | Zürich, Switzerland). |
| 12.00 – 12.30: | Discussions and questions |
| 12.30 – 13.30: | Lunch |
| 13.30 – 15.00: | Slurry Shield tunnelling design, Markus THEWES (Ruhr Universität Bochum – |
| | Germany, ITA ExCo). |
| 15.00 – 16.30: | EPB Tunnelling design. Investigations, soil conditioning and backfilling |
| | technology, Daniele PEILA & Sebastiano PELIZZA (Politecnico di Torino - |
| | Italy, ITA ExCo & ITA former President). |
| 16.30 – 18.00: | Segment lining design, Fritz GRUEBL (Stuttgart University of Applied Sciences |
| | – Germany). |
| 18.00 – 18.30: | Discussions and questions |
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Saturday 14th April 2012

| 08.30 – 09.45: | Use of fibers in segment lining and structural design, <i>Giovanni PLIZZARI</i> (University of Brescia – Italy). |
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| 09.45 – 10.30: | Geological & geotechnical issues related to the design of 'Martina', the world's largest EPB TBM (15.62 m in diameter) <i>Giuseppe LUNARDI</i> (Rocksoil Milano – Italy) |
| 10.30 – 11.45: | Surface settlements. Design theory, <i>Giulia VIGGIANI</i> (University "Tor Vergata" Roma – Italy). |
| 11.45 – 13.00: | Metro Roma case history. Settlement study and analysis of stability of buildings, <i>Andrea SCIOTTI</i> (Roma Metropolitane – Italy, Sebastiano RAMPELLO & Salvatore MILIZIANO (University "La Sapienza" Roma – Italy). |
| 13.00 – 13.30: | Discussions and questions |
| 13.30 – 14.30: | Lunch |
| 14.30 – 16.00: | Bologna underground railway by-pass case history. Description of the work and use of compensation grouting, Robert MAIR (Cambridge University, UK) Andrea PIGORINI (Italferr Roma – Italy). |
| 16.00 – 17.30: | Risk management and real time monitoring of settlements. Application to relevant case histories, <i>Piergiorgio GRASSO</i> (<i>Geodata Torino – Italy, Vice President ITACET Foundation</i>). |
| 17.30 – 18.00: | Discussions and questions |